/ Approved For Release 2002/06 13-1614-RDP81B00878R000300040014-5 SAPC-19410 Copy / of 6 au there items Take com ? . 16 September 1957 25X1A MEMORANDUM FOR: Project Director of Development and Procurement REFERENCES : A. Memorandum for Project Director, from Mr. A.C. Lundahl, dated 27 Aug 1957 - TCS-1797 B. Memorandum for Project Director, from Mr. 25X1A dated 26 Aug 1957 - SAPC-18865 C. Memorandum for Project Director, from Mr. 25X1A dated 30 Aug 1957 - SAPC-18912 1. Could you let me know what has been done about Reference A, or if a decision is still pending on this matter, I would appreciate an indication of the cost involved and the nature and urgency of the requirement. 25X1A 2. I have read Reference B and recommendations sound very sensible to me. I would like to discuss this matter with you in order to learn more about the transistorized System I but believe we should not permit any great delay in ordering these items for promptest possible delivery. 3. With respect to Reference C, I remain highly skeptical of the requirement for System III. The decision stands that we will eliminate it completely, and eliminate alternators on the engines unless and until someone proves that there is a real need. 4. Perhaps we better discuss the above items briefly before you act on any of them but the second item in particular may demand a prompt decision. 25X1A 30. AP C 19410 +
00145 AP C 19410 + Attachments: RICHARD M. BISSELL, JR. Copies # 2 of each ref CHANGE IN CLASS. Project Director 11 DECLASSIFIED CLASS, CHANGED TO: TS & C NEXT REVIEW DATE: RMB:djm 1-Addressee DATE: 13/19/ REVIEWER: 010 2-Deputy Project Director 3-Director of Operations 4-Prappoved For Release 2002/06/13 CIA-RDP81B00878R000300940014

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MEMORANDUM FOR: Project Director	, AQUATONE	; ·

SUBJECT:

Eastman Kodak 70mm viewer for the Tracker Film, Procurement of

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- 1. In direct response to your request for more expeditious reporting of the track, cloud distribution, target coverage and camera operational data, it is considered imperative that at least one Eastman Kodak 70mm viewer be purchased as soon as possible to aid in the accomplishment of this work.
- 2. HTAUTOMAT can and will continue to support operations in every manner possible as we have in the past. However, it is felt that if this equipment could be provided, it would substantially increase the speed and accuracy of reporting this kind of data which are so vitally needed by operations.

3. Inquiries have been made through to determine the availability of this item. One has been found at Eastman Kodak which can be released on a reimbursable basis on or about I September.

4. It is requested that operations procure the Eastman Kodak 70mm viewer as soon as possible.

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19 Dec 57
This weaver has tran at HTA for some time mour. Cost \$ 11, 75000.

A. C. LUNDAHL Chief, HTAUTOMAT

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MEMORANDUM FOR: Project Director

SUBJECT : 24-20 Volt D.C. Power Supply for System I

- 1. No satisfactory power supply exists for System I that can be powered by 24-2 Volt D.C.
- 2. No vibrator power supply can be built without excessive increase in weight perhaps 25 pounds.
- 3. The present state of the art will probably allow a transistorized oscillator type to be built. None have been built for the power requirements (250 watts) of System I. The research and development on this might be rather high. Ramo-Wooldridge would like to do it.
- 4. Ramo-Wooldridge is building a System I with transistors using a transistorized power supply. This is not too difficult since no tubes are used.
- 5. Our present System I's are about 5 db below the state of the art. This is due to our having a modified version of an earlier, very poor unit. To re-modify our System I will be likely to lose another 5 db. A 10 db loss means a 3 to 1 loss of range. We can not afford this.
  - 6. It is recommended that we:
- a. Purchase transistorized System I's on the FOG production schedule and set aside existing System I's for 400 cycle use. Estimated Cost \$2500 per System if ordered during current production run.
- b. Furchase transistorized converter at \$275 for Rambo pre-emplifiers. Extra weight is 4.5 pounds. They are available from stock according to the manufacturer.

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	Acting	MIM	Staff	Officer	
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**SAFC 18912** Copy 2 of 9

30 August 1957

MEDISTANDUM FOR: Project Director

SUBJECT

: Technical Deficiencies of System III

REPERENCE

: SAPC-18390, dated 9 August 1957. Memorandum from

25X1A

Project Director to

- Bubject: Redesign

and Rebuilding of System III

1. It is believed that we may be able to obtain the 20 db's needed to make System III a state of the art system by two actions short of a major redesign. These steps are:

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- a. Use a new anterma. A flight test using the FCG antenna was made on 16 August. The flight test failed due to a fusing problem. \_\_\_\_\_\_ plans to make the test at a later date. However, the only aircraft equipped with the FGG tail-fin antenna that we plan to use is now in the shop for a fifty-hour overhaul.
- b. Use broad-band preemplifier in front of System III receiver. A laboratory test of the preemplifier will be made within a week at Remo-Wooldridge or Stanford University. A quick end dirty check using some equipment at R-W but which is not completely reliable has indicated that 10 dbs. or more will be obtained by this preemplifier.
- 2. The results of these tests will be submitted as soon as practical perhaps within two weeks. Ten db (10 db) will almost certainly be gained. If 20 dbs. are gained, the range will increase by ten times and give a full line of sight equipment.

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Acting ELINT Staff Officer

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